



Natality Report by Racial and Ethnic Population Groups, Kansas, 2017

Research Summary

Kansas Department of Health and Environment
Division of Public Health
Bureau of Epidemiology and Public Health Informatics
Curtis State Office Building – 1000 SW Jackson, Topeka, KS, 66612-1354
<http://www.kdheks.gov/bephi/>
December 2018

This Research Summary Was Prepared By:

Kansas Department of Health and Environment
Jeff Andersen, Secretary

Bureau of Epidemiology and Public Health Informatics
Elizabeth W. Saadi, PhD, Director and State Registrar

Prepared by: Cathryn Savage, PhD
Greg Crawford, BA
Jeanne Jones, BA

Data for this report were collected by:

Office of Vital Statistics
Kay Haug, Director

Our Vision – Healthy Kansans living in safe and sustainable environments

Our Mission – To protect and improve the health and environment of all Kansans

Introduction

The purpose of this report is to present statistics for 2017 for Kansas resident live births by maternal population group based on race/Hispanic origin. Birth outcome indicators include maternal age, education level, marital status, adequacy of prenatal care, primary pay source, WIC service utilization, gestational age and weight of infant at birth. These indicators are examined among population groups by normal birth outcomes and by a summary measure of poor birth outcomes.

Report tables may be used as source information in the determination of disparate outcomes. Information may also be used for program planning purposes.

Methods

Data in this report are based on Kansas resident birth records provided to the Bureau of Epidemiology and Public Health Informatics Office of Vital Statistics by hospitals and health care providers in Kansas and from vital statistics programs in other states. The records are considered 99.99 percent complete. Tables of counts and percentage rates were prepared for selected birth outcomes and maternal characteristics by population groups (see Technical Notes for definitions of selected birth outcomes).

Items for which no response was provided are shown as “not stated” (n.s.) in tables throughout this publication. The “not stated” count has been included in the denominator when calculating percentages for population groups.

Population groups used in this report are White Non-Hispanic, Black Non-Hispanic, Native American Non-

Hispanic, Asian/Pacific Islander (Asian/PI) Non-Hispanic, Multi-race/Other Non-Hispanic and Hispanic any race. Non-Hispanic is referred to as NH in the tables below.

A poor birth outcome is defined as one or more of the following indicators: Low birth weight (less than 2500 grams), prematurity (less than 37 weeks gestation), congenital anomalies and abnormal conditions of the newborn (see Technical Notes for detailed definitions and the list of abnormal conditions of the newborn).

Results

Twenty-two tables containing counts and percentage rates were prepared.

Table 1. Number and Percent of Births by Level of Mother’s Education by Population Group, Kansas, 2017

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2017

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2017

Table 4. Number and Percent of Births by Mother’s Marital Status by Population Group, Kansas, 2017

Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2017

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2017

Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2017

Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Pre-pregnancy BMI* by Population Group, Kansas, 2017

Table 9. Number and Percent of Births by Age-group of Mother by Population Group, 2017

Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2016

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2016

Table 12. Number of Births Where Medical Risk Factor During Pregnancy Reported and Percent of all Medical Risk Factors Reported by Population Group and Medical Risk Factor, Kansas, 2017

Table 13. Number and Percent of Births with and Without Poor Birth Outcomes by Population Group, Kansas, 2017

Table 14. Number and Percent of Births with Poor Birth Outcomes at Mother's Level of Education by Population Group, Kansas, 2017

Table 15. Number and Percent of Births with Poor Birth Outcomes by Primary Payor by Population Group, Kansas, 2017

Table 16. Number and Percent of Births with Poor Birth Outcomes by Health Preparedness Region by Population Group, Kansas, 2017

Table 17. Number and Percent of Births with Poor Birth Outcomes by Mother's Marital Status by Population Group, Kansas, 2017

Table 18. Number and Percent of Births with Poor Birth Outcomes by Adequacy of Prenatal Care by Population Group, Kansas, 2017

Table 19. Number and Percent of Births with Poor Birth Outcomes by WIC Participation by Population Group, Kansas, 2017

Table 20. Number and Percent of Births with Poor Birth Outcomes by Mother's Age by Population Group, Kansas, 2017

Table 21. Number and Percent of Births with Poor Birth Outcomes by Infant's Birth Weight in Grams by Population Group, Kansas, 2017

Table 22. Number and Percent of Births with Poor Birth Outcomes by Weeks Gestation by Population Group, Kansas, 2017

Limitations

In instances where the Hispanic origin of an individual was unknown, the person was assigned to a population group solely on the basis of race and was considered non-Hispanic. For non-Hispanic individuals when more than one race was selected, i.e., Black and White, the event was reported in the Multi Race non-Hispanic population group. Persons reported as Multi Race non-Hispanic are not reported as part of the other single race population groups.

KDHE publishes on Kansas resident births and deaths. In the event that a Kansas resident birth occurs out of state and the birth state is not using the latest revision of the birth certificate, missing data may result. This may be more common in births to residents of Kansas border counties.

Table 1. Number and Percent of Births by Level of Mother's Education by Population Group, Kansas, 2017

Education of Mother	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	235	0.9	57	2.3	2	1.2	65	5.2	43	3.7	643	10.8	0	0.0	1,045	2.9
9-12 Grade, No Diploma	1,485	5.8	286	11.6	28	16.7	42	3.3	135	11.5	1,298	21.8	2	8.0	3,276	9.0
H.S. or GED	5,159	20.3	896	36.4	46	27.4	192	15.3	359	30.5	2,032	34.2	1	4.0	8,685	23.8
Some College, No Degree	5,398	21.2	688	27.9	44	26.2	165	13.1	290	24.6	1,059	17.8	4	16.0	7,648	21.0
Associate Degree	2,750	10.8	208	8.4	23	13.7	78	6.2	92	7.8	321	5.4	1	4.0	3,473	9.5
Bachelor's Degree	6,977	27.4	221	9.0	17	10.1	356	28.4	165	14.0	426	7.2	2	8.0	8,164	22.4
Master's Degree	2,649	10.4	85	3.5	5	3.0	259	20.6	70	5.9	108	1.8	2	8.0	3,178	8.7
Doctorate	715	2.8	17	0.7	1	0.6	92	7.3	17	1.4	31	0.5	1	4.0	874	2.4
n.s.*	63	0.2	5	0.2	2	1.2	6	0.5	6	0.5	27	0.5	12	48.0	121	0.3
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2017

Payor	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	6,824	26.8	1,450	58.9	90	53.6	201	16.0	549	46.6	2,320	39.0	5	20.0	11,439	31.4
Private Insurance	16,424	64.6	715	29.0	47	28.0	897	71.5	430	36.5	1,883	31.7	13	52.0	20,409	56.0
Self-pay	788	3.1	113	4.6	4	2.4	80	6.4	80	6.8	1,409	23.7	3	12.0	2,477	6.8
Indian Health Service	4	0.0	0	0.0	11	6.5	0	0.0	3	0.3	3	0.1	0	0.0	21	0.1
Tricare	1,101	4.3	166	6.7	8	4.8	62	4.9	93	7.9	203	3.4	0	0.0	1,633	4.5
Other gov	129	0.5	12	0.5	4	2.4	8	0.6	9	0.8	48	0.8	0	0.0	210	0.6
Other	102	0.4	4	0.2	2	1.2	4	0.3	9	0.8	30	0.5	0	0.0	151	0.4
n.s.*	59	0.2	3	0.1	2	1.2	3	0.2	4	0.3	49	0.8	4	16.0	124	0.3
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2017

Preparedness Region	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	1,196	4.7	31	1.3	3	1.8	18	1.4	39	3.3	259	4.4	2	8.0	1,548	4.2
East Central Coalition	989	3.9	6	0.2	3	1.8	19	1.5	23	2.0	147	2.5	1	4.0	1,188	3.3
Ellis County	258	1.0	1	0.0	0	0.0	7	0.6	2	0.2	31	0.5	0	0.0	299	0.8
KC Metro Region	8,308	32.7	1,040	42.2	38	22.6	711	56.7	434	36.9	1,770	29.8	16	64.0	12,317	33.8
South-Central Metro Region	6,520	25.6	858	34.8	28	16.7	309	24.6	278	23.6	1,536	25.8	3	12.0	9,532	26.1
Lower 8 of SE Kansas	1,398	5.5	51	2.1	29	17.3	9	0.7	66	5.6	92	1.5	0	0.0	1,645	4.5
North Central Kansas	864	3.4	4	0.2	1	0.6	3	0.2	22	1.9	40	0.7	0	0.0	934	2.6
Northwest Bioterror	347	1.4	5	0.2	0	0.0	1	0.1	4	0.3	30	0.5	1	4.0	388	1.1
Northeast Corner	2,217	8.7	194	7.9	52	31.0	46	3.7	146	12.4	412	6.9	1	4.0	3,068	8.4
Rush County	30	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31	0.1
South Central Coalition	324	1.3	4	0.2	1	0.6	3	0.2	6	0.5	30	0.5	0	0.0	368	1.0
South East Kansas Multi-County	427	1.7	4	0.2	0	0.0	2	0.2	10	0.8	15	0.3	0	0.0	458	1.3
Southwest Kansas Health Initiative	206	0.8	6	0.2	2	1.2	12	1.0	5	0.4	443	7.5	0	0.0	674	1.8
Southwest Surveillance	354	1.4	17	0.7	2	1.2	4	0.3	6	0.5	423	7.1	0	0.0	806	2.2
West Central Public Health	192	0.8	0	0.0	0	0.0	0	0.0	5	0.4	17	0.3	0	0.0	214	0.6
Western Pyramid	363	1.4	25	1.0	1	0.6	22	1.8	9	0.8	445	7.5	1	4.0	866	2.4
Wildcat Region	1,438	5.7	216	8.8	8	4.8	89	7.1	122	10.4	255	4.3	0	0.0	2,128	5.8
n.s.*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 4. Number and Percent of Births by Mother's Marital Status by Population Group, Kansas, 2017

Status	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	17,945	70.6	783	31.8	65	38.7	1,101	87.7	629	53.4	2,923	49.2	18	72.0	23,464	64.3
Not Married	7,480	29.4	1,680	68.2	103	61.3	154	12.3	547	46.5	3,018	50.8	7	28.0	12,989	35.6
Unknown	6	0.0	0	0.0	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	11	0.0
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2017

Level of Prenatal Care	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	8,421	33.1	663	26.9	58	34.5	390	31.1	356	30.2	1,487	25.0	5	20.0	11,380	31.2
Adequate	13,772	54.2	1,162	47.2	59	35.1	648	51.6	543	46.1	2,716	45.7	6	24.0	18,906	51.8
Intermediate	1,127	4.4	207	8.4	15	8.9	55	4.4	115	9.8	627	10.5	3	12.0	2,149	5.9
Inadequate	2,002	7.9	423	17.2	36	21.4	158	12.6	152	12.9	1,086	18.3	7	28.0	3,864	10.6
n.s.*	109	0.4	8	0.3	0	0.0	4	0.3	11	0.9	29	0.5	4	16.0	165	0.5
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2017

Weeks Gestation	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 20	10	0.0	6	0.2	0	0.0	2	0.2	0	0.0	7	0.1	0	0.0	25	0.1
20-22	20	0.1	8	0.3	0	0.0	0	0.0	1	0.1	8	0.1	0	0.0	37	0.1
23-27	121	0.5	24	1.0	2	1.2	6	0.5	11	0.9	25	0.4	0	0.0	189	0.5
28-31	218	0.9	43	1.7	2	1.2	3	0.2	18	1.5	47	0.8	0	0.0	331	0.9
32-35	1,002	3.9	144	5.8	7	4.2	40	3.2	60	5.1	244	4.1	1	4.0	1,498	4.1
36	949	3.7	127	5.2	8	4.8	63	5.0	42	3.6	223	3.8	0	0.0	1,412	3.9
37-38	6,306	24.8	733	29.8	44	26.2	365	29.1	317	26.9	1,576	26.5	4	16.0	9,345	25.6
39	10,240	40.3	830	33.7	69	41.1	467	37.2	431	36.6	2,359	39.7	10	40.0	14,406	39.5
40-41	6,484	25.5	542	22.0	35	20.8	309	24.6	290	24.6	1,437	24.2	7	28.0	9,104	25.0
42 and over	68	0.3	6	0.2	0	0.0	0	0.0	6	0.5	13	0.2	0	0.0	93	0.3
n.s.*	13	0.1	0	0.0	1	0.6	0	0.0	1	0.1	6	0.1	3	12.0	24	0.1
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2017

WIC Use	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	5,623	22.1	1,217	49.4	78	46.4	227	18.1	511	43.4	3,276	55.1	3	12.0	10,935	30.0
No	19,754	77.7	1,245	50.5	88	52.4	1,027	81.8	662	56.2	2,665	44.8	21	84.0	25,462	69.8
n.s.*	54	0.2	1	0.0	2	1.2	1	0.1	4	0.3	4	0.1	1	4.0	67	0.2
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Prepregnancy BMI by Population Group, Kansas, 2017*

Weight Gain*	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Less than recommended	4,622	18.8	594	25.4	44	26.8	345	28.3	305	27.0	1,493	25.7	8	33.3	7,411	21.0
Recommended	7,826	31.9	657	28.1	52	31.7	453	37.2	298	26.4	1,907	32.8	3	12.5	11,196	31.8
More than recommended	11,951	48.7	1,078	46.1	68	41.5	416	34.1	521	46.1	2,383	41.0	7	29.2	16,424	46.6
n.s.†	142	0.6	10	0.4	0	0.0	5	0.4	6	0.5	33	0.6	6	25.0	202	0.6
Total	24,541	100	2,339	100	164	100	1,219	100	1,130	100	5,816	100	24	100	35,233	100

*See Technical Notes for definition of weight gain based on BMI.

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 9. Number and Percent of Births by Age-group of Mother by Population Group, Kansas, 2017

Mother's Age Group	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10-14	4	0.0	1	0.0	0	0.0	1	0.1	1	0.1	6	0.1	0	0.0	13	0.0
15-17	205	0.8	65	2.6	3	1.8	4	0.3	29	2.5	152	2.6	0	0.0	458	1.3
18-19	901	3.5	161	6.5	11	6.5	15	1.2	79	6.7	428	7.2	0	0.0	1,595	4.4
20-24	4,982	19.6	747	30.3	55	32.7	136	10.8	359	30.5	1,702	28.6	3	12.0	7,984	21.9
25-29	8,372	32.9	702	28.5	47	28.0	340	27.1	342	29.1	1,690	28.4	3	12.0	11,496	31.5
30-34	7,545	29.7	506	20.5	37	22.0	464	37.0	243	20.6	1,202	20.2	6	24.0	10,003	27.4
35-39	2,935	11.5	233	9.5	13	7.7	252	20.1	107	9.1	609	10.2	10	40.0	4,159	11.4
40-44	458	1.8	47	1.9	2	1.2	38	3.0	16	1.4	148	2.5	2	8.0	711	1.9
45 and above	29	0.1	1	0.0	0	0.0	5	0.4	1	0.1	8	0.1	0	0.0	44	0.1
n.s.*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	4.0	1	0.0
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 19, 2018

Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2017

Prenatal Care Began	White NH		Black NH		American Indian-Alaska Native NH		Asian/PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
First Trimester	21,532	84.7	1,767	71.7	110	65.5	997	79.4	887	75.4	4,170	70.1	10	40.0	29,473	80.8
Second Trimester	3,085	12.1	516	21.0	44	26.2	201	16.0	217	18.4	1,308	22.0	8	32.0	5,379	14.8
Third Trimester	536	2.1	122	5.0	6	3.6	40	3.2	50	4.2	337	5.7	3	12.0	1,094	3.0
No Prenatal Care	169	0.7	45	1.8	8	4.8	12	1.0	9	0.8	99	1.7	0	0.0	342	0.9
n.s.*	109	0.4	13	0.5	0	0.0	5	0.4	14	1.2	31	0.5	4	16.0	176	0.5
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2017

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Allen	129	0.5	1	0.0	0	0.0	2	0.2	3	0.3	5	0.1	0	0.0	140	0.4
Anderson	98	0.4	0	0.0	0	0.0	0	0.0	2	0.2	4	0.1	0	0.0	104	0.3
Atchison	150	0.6	7	0.3	0	0.0	3	0.2	8	0.7	6	0.1	0	0.0	174	0.5
Barber	48	0.2	0	0.0	1	0.6	0	0.0	1	0.1	5	0.1	0	0.0	55	0.2
Barton	208	0.8	3	0.1	0	0.0	1	0.1	4	0.3	68	1.1	0	0.0	284	0.8
Bourbon	169	0.7	3	0.1	0	0.0	0	0.0	5	0.4	3	0.1	0	0.0	180	0.5
Brown	104	0.4	1	0.0	13	7.7	0	0.0	4	0.3	8	0.1	0	0.0	130	0.4
Butler	693	2.7	7	0.3	5	3.0	12	1.0	13	1.1	33	0.6	0	0.0	763	2.1
Chase	16	0.1	1	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	19	0.1
Chautauqua	24	0.1	0	0.0	3	1.8	0	0.0	1	0.1	2	0.0	0	0.0	30	0.1
Cherokee	187	0.7	2	0.1	5	3.0	0	0.0	17	1.4	1	0.0	0	0.0	212	0.6
Cheyenne	24	0.1	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1	0	0.0	30	0.1
Clark	19	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	22	0.1
Clay	85	0.3	0	0.0	0	0.0	1	0.1	0	0.0	5	0.1	0	0.0	91	0.2
Cloud	101	0.4	1	0.0	0	0.0	0	0.0	4	0.3	3	0.1	0	0.0	109	0.3
Coffey	88	0.3	0	0.0	1	0.6	2	0.2	2	0.2	1	0.0	0	0.0	94	0.3
Comanche	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	18	0.0
Cowley	312	1.2	8	0.3	2	1.2	11	0.9	9	0.8	73	1.2	0	0.0	415	1.1
Crawford	377	1.5	18	0.7	1	0.6	7	0.6	11	0.9	46	0.8	0	0.0	460	1.3
Decatur	33	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	33	0.1
Dickinson	179	0.7	3	0.1	0	0.0	0	0.0	10	0.8	16	0.3	0	0.0	208	0.6
Doniphan	65	0.3	0	0.0	0	0.0	1	0.1	2	0.2	1	0.0	0	0.0	69	0.2
Douglas	861	3.4	53	2.2	23	13.7	74	5.9	48	4.1	74	1.2	1	4.0	1,134	3.1
Edwards	14	0.1	0	0.0	0	0.0	0	0.0	1	0.1	8	0.1	0	0.0	23	0.1
Elk	22	0.1	0	0.0	1	0.6	0	0.0	1	0.1	0	0.0	0	0.0	24	0.1
Ellis	258	1.0	1	0.0	0	0.0	7	0.6	2	0.2	31	0.5	0	0.0	299	0.8
Ellsworth	55	0.2	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	58	0.2
Finney	185	0.7	25	1.0	1	0.6	22	1.8	8	0.7	384	6.5	0	0.0	625	1.7
Ford	176	0.7	17	0.7	2	1.2	3	0.2	4	0.3	387	6.5	0	0.0	589	1.6
Franklin	291	1.1	0	0.0	0	0.0	2	0.2	4	0.3	8	0.1	0	0.0	305	0.8

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2017

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Geary	497	2.0	140	5.7	4	2.4	40	3.2	72	6.1	137	2.3	0	0.0	890	2.4
Gove	30	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	31	0.1
Graham	19	0.1	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	21	0.1
Grant	42	0.2	0	0.0	1	0.6	0	0.0	0	0.0	70	1.2	0	0.0	113	0.3
Gray	77	0.3	0	0.0	0	0.0	0	0.0	0	0.0	11	0.2	0	0.0	88	0.2
Greeley	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	1	4.0	25	0.1
Greenwood	53	0.2	0	0.0	0	0.0	1	0.1	1	0.1	2	0.0	0	0.0	57	0.2
Hamilton	18	0.1	0	0.0	0	0.0	0	0.0	0	0.0	13	0.2	0	0.0	31	0.1
Harper	56	0.2	1	0.0	0	0.0	0	0.0	1	0.1	6	0.1	0	0.0	64	0.2
Harvey	319	1.3	2	0.1	0	0.0	4	0.3	9	0.8	45	0.8	0	0.0	379	1.0
Haskell	33	0.1	0	0.0	0	0.0	0	0.0	1	0.1	12	0.2	0	0.0	46	0.1
Hodgeman	14	0.1	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	17	0.0
Jackson	135	0.5	0	0.0	22	13.1	1	0.1	7	0.6	15	0.3	0	0.0	180	0.5
Jefferson	169	0.7	1	0.0	0	0.0	1	0.1	3	0.3	4	0.1	0	0.0	178	0.5
Jewell	30	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	31	0.1
Johnson	5,403	21.2	373	15.1	9	5.4	498	39.7	212	18.0	703	11.8	9	36.0	7,207	19.8
Kearny	43	0.2	0	0.0	0	0.0	0	0.0	0	0.0	22	0.4	0	0.0	65	0.2
Kingman	69	0.3	0	0.0	0	0.0	1	0.1	1	0.1	1	0.0	0	0.0	72	0.2
Kiowa	28	0.1	2	0.1	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	32	0.1
Labette	235	0.9	8	0.3	5	3.0	0	0.0	6	0.5	6	0.1	0	0.0	260	0.7
Lane	15	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.0
Leavenworth	736	2.9	63	2.6	1	0.6	21	1.7	36	3.1	91	1.5	3	12.0	951	2.6
Lincoln	21	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	22	0.1
Linn	94	0.4	0	0.0	0	0.0	0	0.0	2	0.2	3	0.1	0	0.0	99	0.3
Logan	33	0.1	0	0.0	0	0.0	0	0.0	1	0.1	5	0.1	0	0.0	39	0.1
Lyon	244	1.0	5	0.2	1	0.6	10	0.8	10	0.8	122	2.1	1	4.0	393	1.1
McPherson	103	0.4	0	0.0	1	0.6	0	0.0	1	0.1	8	0.1	0	0.0	113	0.3
Marion	114	0.4	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1	0	0.0	121	0.3
Marshall	287	1.1	8	0.3	1	0.6	4	0.3	4	0.3	18	0.3	2	8.0	324	0.9
Meade	35	0.1	0	0.0	0	0.0	1	0.1	0	0.0	8	0.1	0	0.0	44	0.1
Miami	361	1.4	4	0.2	1	0.6	1	0.1	10	0.8	10	0.2	0	0.0	387	1.1

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2017

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Mitchell	70	0.3	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	74	0.2
Montgomery	270	1.1	18	0.7	13	7.7	2	0.2	23	2.0	24	0.4	0	0.0	350	1.0
Morris	68	0.3	0	0.0	1	0.6	1	0.1	1	0.1	1	0.0	0	0.0	72	0.2
Morton	24	0.1	0	0.0	0	0.0	1	0.1	0	0.0	20	0.3	0	0.0	45	0.1
Nemaha	144	0.6	1	0.0	0	0.0	0	0.0	2	0.2	3	0.1	1	4.0	151	0.4
Neosho	176	0.7	5	0.2	0	0.0	0	0.0	7	0.6	8	0.1	0	0.0	196	0.5
Ness	12	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	15	0.0
Norton	44	0.2	0	0.0	0	0.0	0	0.0	2	0.2	3	0.1	1	4.0	50	0.1
Osage	157	0.6	0	0.0	0	0.0	1	0.1	3	0.3	10	0.2	0	0.0	171	0.5
Osborne	45	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	45	0.1
Ottawa	43	0.2	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	44	0.1
Pawnee	71	0.3	0	0.0	1	0.6	1	0.1	2	0.2	6	0.1	0	0.0	81	0.2
Phillips	46	0.2	0	0.0	0	0.0	1	0.1	0	0.0	2	0.0	0	0.0	49	0.1
Pottawatomie	323	1.3	1	0.0	1	0.6	2	0.2	5	0.4	23	0.4	0	0.0	355	1.0
Pratt	92	0.4	1	0.0	0	0.0	2	0.2	1	0.1	8	0.1	0	0.0	104	0.3
Rawlins	28	0.1	3	0.1	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	33	0.1
Reno	549	2.2	14	0.6	3	1.8	5	0.4	25	2.1	96	1.6	1	4.0	693	1.9
Republic	56	0.2	0	0.0	0	0.0	0	0.0	2	0.2	2	0.0	0	0.0	60	0.2
Rice	83	0.3	0	0.0	0	0.0	1	0.1	0	0.0	19	0.3	0	0.0	103	0.3
Riley	618	2.4	75	3.0	3	1.8	47	3.7	45	3.8	95	1.6	0	0.0	883	2.4
Rooks	48	0.2	0	0.0	0	0.0	0	0.0	2	0.2	2	0.0	0	0.0	52	0.1
Rush	30	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31	0.1
Russell	71	0.3	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	73	0.2
Saline	501	2.0	20	0.8	1	0.6	11	0.9	29	2.5	140	2.4	0	0.0	702	1.9
Scott	50	0.2	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	0	0.0	57	0.2
Sedgwick	4,295	16.9	824	33.5	16	9.5	277	22.1	220	18.7	1,273	21.4	2	8.0	6,907	18.9
Seward	83	0.3	6	0.2	1	0.6	10	0.8	3	0.3	316	5.3	0	0.0	419	1.1
Shawnee	1,336	5.3	183	7.4	17	10.1	40	3.2	120	10.2	369	6.2	0	0.0	2,065	5.7
Sheridan	27	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	29	0.1
Sherman	65	0.3	0	0.0	0	0.0	0	0.0	3	0.3	5	0.1	0	0.0	73	0.2
Smith	40	0.2	0	0.0	1	0.6	0	0.0	2	0.2	0	0.0	0	0.0	43	0.1

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2017

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Stafford	46	0.2	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1	0	0.0	54	0.1
Stanton	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	11	0.2	0	0.0	28	0.1
Stevens	40	0.2	0	0.0	0	0.0	1	0.1	2	0.2	26	0.4	0	0.0	69	0.2
Sumner	249	1.0	3	0.1	1	0.6	0	0.0	1	0.1	8	0.1	0	0.0	262	0.7
Thomas	105	0.4	1	0.0	0	0.0	0	0.0	0	0.0	14	0.2	0	0.0	120	0.3
Trego	25	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	27	0.1
Wabaunsee	72	0.3	0	0.0	0	0.0	2	0.2	0	0.0	3	0.1	0	0.0	77	0.2
Wallace	14	0.1	0	0.0	0	0.0	0	0.0	1	0.1	3	0.1	0	0.0	18	0.0
Washington	68	0.3	0	0.0	0	0.0	0	0.0	2	0.2	6	0.1	0	0.0	76	0.2
Wichita	21	0.1	0	0.0	0	0.0	0	0.0	0	0.0	9	0.2	0	0.0	30	0.1
Wilson	107	0.4	0	0.0	1	0.6	0	0.0	0	0.0	5	0.1	0	0.0	113	0.3
Woodson	31	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	34	0.1
Wyandotte	853	3.4	547	22.2	4	2.4	117	9.3	126	10.7	889	15.0	3	12.0	2,539	7.0
n.s.*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 12. Number of Births Where Medical Risk Factor During Pregnancy Reported and Percent of all Medical Risk Factors Reported by Population Group and Medical Risk Factor, Kansas, 2017

Medical Risk Factors	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Pre-pregnancy Diabetes	157	1.2	27	2.0	4	3.2	12	2.4	7	1.1	52	2.1	0	0.0	259	1.5
Gestational Diabetes	1,394	11.0	114	8.5	20	16.0	147	29.1	77	12.5	453	18.2	3	27.3	2,208	12.4
Pre-pregnancy Hypertension	399	3.1	76	5.7	4	3.2	10	2.0	16	2.6	63	2.5	1	9.1	569	3.2
Pre-eclampsia	1,783	14.1	187	14.0	15	12.0	53	10.5	67	10.9	312	12.5	2	18.2	2,419	13.6
Eclampsia	81	0.6	13	1.0	1	0.8	3	0.6	6	1.0	12	0.5	0	0.0	116	0.7
Previous Pre-term Birth	599	4.7	77	5.8	5	4.0	23	4.6	33	5.4	145	5.8	1	9.1	883	5.0
Previous Poor Pregnancy Outcome	476	3.8	42	3.1	10	8.0	14	2.8	22	3.6	79	3.2	0	0.0	643	3.6
Vaginal Bleeding	219	1.7	15	1.1	3	2.4	5	1.0	14	2.3	51	2.0	0	0.0	307	1.7
Previous C-Section	3,467	27.3	345	25.9	23	18.4	178	35.2	133	21.6	840	33.7	3	27.3	4,989	28.1
Infertility Treatment	366	2.9	3	0.2	0	0.0	13	2.6	9	1.5	20	0.8	0	0.0	411	2.3
Infections Contracted or Treated During Pregnancy†	863	6.8	144	10.8	12	9.6	32	6.3	80	13.0	231	9.3	0	0.0	1,362	7.7
Smoking During Pregnancy	2,854	22.5	284	21.3	26	20.8	14	2.8	150	24.4	225	9.0	1	9.1	3,554	20.0
Alcohol Use During Pregnancy	27	0.2	7	0.5	2	1.6	1	0.2	1	0.2	6	0.2	0	0.0	44	0.2
Total Births	12,685	100	1,334	100	125	100	505	100	615	100	2,489	100	11	100	17,764	100

Note: More than one medical risk factor may have been reported for a birth. Therefore, actual number of births maybe lower than totals.

*n.s. = not stated

†Infections include: Gonorrhea, Syphilis, Herpes Simplex Virus, Chlamydia, HIV, Hepatitis B & Hepatitis C

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 13. Number and Percent of Births With and Without Poor Birth Outcomes* by Population Group, Kansas, 2017

Poor Outcome	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes‡	3,980	15.7	585	23.8	33	19.6	205	16.3	221	18.8	910	15.3	4	16.0	5,938	16.3
No	21,451	84.3	1,878	76.2	135	80.4	1,050	83.7	956	81.2	5,035	84.7	21	84.0	30,526	83.7
Total	25,431	100	2,463	100	168	100	1,255	100	1,177	100	5,945	100	25	100	36,464	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 19, 2018

Table 14. Number and Percent of Births with Poor Birth Outcomes* at Mother's Level of Education by Population Group, Kansas, 2017

Education of Mother	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	39	1.0	15	2.6	0	0.0	11	5.4	5	2.3	96	10.5	0	0.0	166	2.8
9-12 Grade, No Diploma	303	7.6	78	13.3	9	27.3	5	2.4	26	11.8	192	21.1	0	0.0	613	10.3
H.S. or GED	940	23.6	199	34.0	11	33.3	27	13.2	70	31.7	308	33.8	0	0.0	1,555	26.2
Some College, No Degree	873	21.9	172	29.4	6	18.2	25	12.2	64	29.0	188	20.7	1	25.0	1,329	22.4
Associate Degree	404	10.2	58	9.9	5	15.2	13	6.3	15	6.8	36	4.0	0	0.0	531	8.9
Bachelor's Degree	938	23.6	40	6.8	2	6.1	68	33.2	28	12.7	64	7.0	0	0.0	1,140	19.2
Master's Degree	371	9.3	15	2.6	0	0.0	43	21.0	12	5.4	17	1.9	0	0.0	458	7.7
Doctorate	95	2.4	7	1.2	0	0.0	11	5.4	1	0.5	6	0.7	1	25.0	121	2.0
n.s.†	17	0.4	1	0.2	0	0.0	2	1.0	0	0.0	3	0.3	2	50.0	25	0.4
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 15. Number and Percent of Births with Poor Birth Outcomes* by Primary Payor by Population Group, Kansas 2017

Payor	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	1,286	32.3	370	63.2	23	69.7	40	19.5	124	56.1	390	42.9	1	25.0	2,234	37.6
Private/employer Ins	2,400	60.3	157	26.8	6	18.2	145	70.7	62	28.1	290	31.9	2	50.0	3,062	51.6
Self-pay	103	2.6	28	4.8	1	3.0	15	7.3	11	5.0	186	20.4	0	0.0	344	5.8
Indian Health Service	1	0.0	0	0.0	1	3.0	0	0.0	1	0.5	1	0.1	0	0.0	4	0.1
Tricare	137	3.4	26	4.4	0	0.0	3	1.5	20	9.0	24	2.6	0	0.0	210	3.5
Other gov	18	0.5	0	0.0	1	3.0	1	0.5	1	0.5	6	0.7	0	0.0	27	0.5
Other	25	0.6	1	0.2	1	3.0	1	0.5	2	0.9	6	0.7	0	0.0	36	0.6
n.s.†	10	0.3	3	0.5	0	0.0	0	0.0	0	0.0	7	0.8	1	25.0	21	0.4
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 16. Number and Percent of Births with Poor Birth Outcomes* by Health Preparedness Region by Population Group, Kansas 2017

Preparedness Region	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	207	5.2	7	1.2	1	3.0	3	1.5	8	3.6	50	5.5	0	0.0	276	4.6
East Central Coalition	147	3.7	1	0.2	0	0.0	5	2.4	4	1.8	23	2.5	0	0.0	180	3.0
Ellis County	36	0.9	1	0.2	0	0.0	0	0.0	0	0.0	4	0.4	0	0.0	41	0.7
KC Mmetro Region	1,270	31.9	246	42.1	5	15.2	117	57.1	75	33.9	254	27.9	3	75.0	1,970	33.2
KS South-Central Metro Region	1,140	28.6	214	36.6	4	12.1	56	27.3	51	23.1	240	26.4	0	0.0	1,705	28.7
Lower 8 of SE Kansas	236	5.9	15	2.6	6	18.2	0	0.0	16	7.2	10	1.1	0	0.0	283	4.8
North Central Kansas	123	3.1	2	0.3	0	0.0	0	0.0	7	3.2	7	0.8	0	0.0	139	2.3
Northwest Bioterror	47	1.2	2	0.3	0	0.0	0	0.0	2	0.9	5	0.5	1	25.0	57	1.0
Northeast Corner	317	8.0	51	8.7	13	39.4	7	3.4	27	12.2	77	8.5	0	0.0	492	8.3
Rush County	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
South Central Coalition	45	1.1	2	0.3	0	0.0	2	1.0	0	0.0	5	0.5	0	0.0	54	0.9
South East Kansas Multi-County	59	1.5	2	0.3	0	0.0	0	0.0	2	0.9	2	0.2	0	0.0	65	1.1
Southwest Kansas Health Initiative	24	0.6	2	0.3	2	6.1	1	0.5	1	0.5	60	6.6	0	0.0	90	1.5
Southwest Surveillance	38	1.0	2	0.3	0	0.0	2	1.0	0	0.0	55	6.0	0	0.0	97	1.6
West Central Public Health	36	0.9	0	0.0	0	0.0	0	0.0	3	1.4	4	0.4	0	0.0	43	0.7
Western Pyramid	69	1.7	7	1.2	0	0.0	2	1.0	1	0.5	78	8.6	0	0.0	157	2.6
Wildcat Region	182	4.6	31	5.3	2	6.1	10	4.9	24	10.9	36	4.0	0	0.0	285	4.8
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 17. Number and Percent of Births with Poor Birth Outcomes* by Mother's Marital Status by Population Group Kansas, 2017

Status	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	2,586	65.0	162	27.7	9	27.3	179	87.3	102	46.2	432	47.5	3	75.0	3,473	58.5
Not Married	1,392	35.0	423	72.3	24	72.7	26	12.7	118	53.4	476	52.3	1	25.0	2,460	41.4
n.s.†	2	0.1	0	0.0	0	0.0	0	0.0	1	0.5	2	0.2	0	0.0	5	0.1
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 18. Number and Percent of Births with Poor Birth Outcomes by Adequacy of Prenatal Care by Population Group, Kansas, 2017*

Level of prenatal care	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	1,848	46.4	214	36.6	12	36.4	97	47.3	99	44.8	371	40.8	1	25.0	2,642	44.5
Adequate	1,510	37.9	243	41.5	8	24.2	78	38.0	72	32.6	297	32.6	0	0.0	2,208	37.2
Intermediate	238	6.0	37	6.3	4	12.1	5	2.4	16	7.2	71	7.8	1	25.0	372	6.3
Inadequate	342	8.6	89	15.2	9	27.3	24	11.7	29	13.1	164	18.0	1	25.0	658	11.1
n.s.†	42	1.1	2	0.3	0	0.0	1	0.5	5	2.3	7	0.8	1	25.0	58	1.0
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 19. Number and Percent of Births with Poor Birth Outcomes* by WIC Participation by Population Group, Kansas, 2017

WIC Use	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	1,020	25.6	314	53.7	15	45.5	35	17.1	111	50.2	476	52.3	0	0.0	1,971	33.2
No	2,952	74.2	271	46.3	18	54.5	170	82.9	109	49.3	433	47.6	3	75.0	3,956	66.6
n.s.†	8	0.2	0	0.0	0	0.0	0	0.0	1	0.5	1	0.1	1	25.0	11	0.2
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 16, 2018

Table 20. Number and Percent of Births with Poor Birth Outcomes* by Mother's Age by Population Group
 Kansas, 2017

Years	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10-14	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	4	#REF!
15-17	41	1.0	18	3.1	1	3.0	0	0.0	5	2.3	36	4.0	0	0.0	101	0.1
18-19	187	4.7	28	4.8	2	6.1	2	1.0	25	11.3	68	7.5	0	0.0	312	5.3
20-24	784	19.7	166	28.4	11	33.3	26	12.7	61	27.6	279	30.7	0	0.0	1,327	22.3
25-29	1,260	31.7	181	30.9	6	18.2	47	22.9	66	29.9	235	25.8	0	0.0	1,795	30.2
30-34	1,087	27.3	110	18.8	8	24.2	75	36.6	39	17.6	153	16.8	3	75.0	1,475	24.8
35-39	509	12.8	65	11.1	4	12.1	45	22.0	22	10.0	103	11.3	1	25.0	749	12.6
40-44	95	2.4	17	2.9	1	3.0	8	3.9	2	0.9	31	3.4	0	0.0	154	2.6
45 and above	16	0.4	0	0.0	0	0.0	2	1.0	1	0.5	2	0.2	0	0.0	21	0.4
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 19, 2018

Table 21. Number and Percent of Births with Poor Birth Outcomes* by Infant's Birth Weight in Grams by Population Group, Kansas, 2017

Birth Weight in Grams	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 500	34	0.9	19	3.2	1	3.0	2	1.0	2	0.9	17	1.9	0	0.0	75	1.3
500-999	107	2.7	24	4.1	0	0.0	6	2.9	5	2.3	22	2.4	0	0.0	164	2.8
1000-1499	165	4.1	34	5.8	4	12.1	1	0.5	18	8.1	29	3.2	0	0.0	251	4.2
1500-1999	340	8.5	70	12.0	0	0.0	18	8.8	32	14.5	82	9.0	0	0.0	542	9.1
2000-2499	1,052	26.4	205	35.0	6	18.2	73	35.6	70	31.7	258	28.4	1	25.0	1,665	28.0
2500-2999	895	22.5	108	18.5	8	24.2	59	28.8	40	18.1	202	22.2	0	0.0	1,312	22.1
3000-3499	768	19.3	81	13.8	10	30.3	26	12.7	31	14.0	182	20.0	1	25.0	1,099	18.5
3500-3999	426	10.7	32	5.5	2	6.1	14	6.8	17	7.7	87	9.6	1	25.0	579	9.8
4000-4499	141	3.5	10	1.7	2	6.1	3	1.5	6	2.7	21	2.3	1	25.0	184	3.1
4500-4999	39	1.0	1	0.2	0	0.0	2	1.0	0	0.0	8	0.9	0	0.0	50	0.8
5000 and over	10	0.3	1	0.2	0	0.0	1	0.5	0	0.0	2	0.2	0	0.0	14	0.2
N.S.	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
All	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created July 19, 2018

Table 22. Number and Percent of Births with Poor Birth Outcomes* by Weeks of Gestation by Population Group, Kansas, 2017

Weeks Gestation	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 20	10	0.3	6	1.0	0	0.0	2	1.0	0	0.0	7	0.8	0	0.0	25	0.4
20-22	20	0.5	8	1.4	0	0.0	0	0.0	1	0.5	8	0.9	0	0.0	37	0.6
23-27	121	3.0	24	4.1	2	6.1	6	2.9	11	5.0	25	2.7	0	0.0	189	3.2
28-31	218	5.5	43	7.4	2	6.1	3	1.5	18	8.1	47	5.2	0	0.0	331	5.6
32-35	1,002	25.2	144	24.6	7	21.2	40	19.5	60	27.1	244	26.8	1	25.0	1,498	25.2
36	949	23.8	127	21.7	8	24.2	63	30.7	42	19.0	223	24.5	0	0.0	1,412	23.8
37	453	11.4	72	12.3	3	9.1	26	12.7	33	14.9	91	10.0	0	0.0	678	11.4
38-39	870	21.9	116	19.8	8	24.2	50	24.4	46	20.8	192	21.1	3	75.0	1,285	21.6
40-41	324	8.1	43	7.4	2	6.1	15	7.3	9	4.1	68	7.5	0	0.0	461	7.8
42 and over	8	0.2	2	0.3	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	12	0.2
n.s.*	5	0.1	0	0.0	1	3.0	0	0.0	1	0.5	3	0.3	0	0.0	10	0.2
Total	3,980	100	585	100	33	100	205	100	221	100	910	100	4	100	5,938	100

*See Technical Notes for definition of poor birth outcomes

*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,
Bureau of Epidemiology and Public Health Informatics

Created July 19, 2018

Technical Notes

Registration. Reporting of Kansas vital events to the Kansas Department of Health and Environment (KDHE) is mandated by law (K.S.A. 65-102, K.S.A. 65-2422b, K.S.A. 65-445). These reports are completed by the combined efforts of physicians, hospital personnel, funeral directors, attorneys, and local courts. All certificates and reports are filed with the Office of Vital Statistics by direct reporting.

Data Caveats.

- The dates used to calculate the month prenatal care began included the first day of the last menses before pregnancy and the date of the first prenatal visit.
- KDHE publishes data on Kansas resident births and deaths. If the birth occurs out of state and the state is not using the latest revision of the birth certificate, missing data may result. This is an important factor in Kansas border counties.
- This report includes non-stated (n.s.) in the denominators (totals) for all calculations that result in percentages. These percentages may differ from those in the Kansas Annual Summary of Vital Statistics, 2016 where n.s. is subtracted from the total (denominator).
- Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out-of-state).

Criteria for Small for Gestational Age (SGA). Small for gestational age is when the infant's birth-weight is less than the 10th percentile, (lowest 9.9 percent of births). These infants may be normal but small or pathologically small (intrauterine growth restriction). Many different things can lead to intrauterine growth restriction (IUGR). An unborn baby may not get enough nutrition because of:

- High altitudes
- Multiple pregnancies (twins, triplets, etc.)
- Placenta problems
- High blood pressure (pre-eclampsia)

Congenital or chromosomal abnormalities are often associated with below-normal weight. Infections during pregnancy that affect the developing baby, such as rubella, cytomegalovirus, toxoplasmosis, and syphilis may also affect the weight of the developing baby. Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.

Definitions

Live Birth

The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.

Poor birth outcomes

Refers to infants who have at least one of the following: prematurity, congenital anomaly, low birth weight or an abnormal condition of the newborn.

Prematurity

Less than 37 weeks gestation.

Congenital Anomalies

Defects existing at and usually before birth regardless of causation.

Low Birth Weight

Weight of a fetus or infant at delivery which is less than 2,500 grams (less than five pounds, 8 ounces).

Abnormal Conditions of the Newborn

Need for breathing/respiratory assistance, admission to neonatal intensive care, surfactant replacement therapy, need for antibiotics for infection, presence of seizures or neurological dysfunction and birth injuries requiring medical intervention.

Prenatal Care

Pregnancy-related health care services provided to a woman between conception and delivery.

Trimester

A three-month period of time. First trimester care, for example, refers to medical care initiated in the first three months of pregnancy.

Weeks Gestation

The number of weeks between the first day of the last reported normal menses and the delivery of the fetus or infant.

WIC Services

WIC is a federally funded nutrition program for women, infants, and children. WIC provides healthy foods, education and counseling, breastfeeding support, and referrals for health care at no cost.

Adequacy of prenatal care

An assessment of adequacy of prenatal care measured by the APNCU index is a composite measure based on gestational age of the newborn, the trimester prenatal care began and the number of prenatal visits made (also known as the Kotelchuck Index).

Body Mass Index (BMI)

An index for relating a person's weight in pound times 703, and dividing by their height in inches squared.